

*Flexible, Fast and Secure:
Why your gut feelings about
Active Nets are wrong!*

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Security

- ◆ Appropriate Restrictions of functionality
- ◆ Alien Active Loader - Restrict CAML
- ◆ Programming Language for Active Networks (PLAN)
- ◆ Secure Active Networking Environment (SANE)

Performance

- ◆ Alien Active Bridging - 40+ Mbps
- ◆ SANE Implementation - 5ms ping
- ◆ PLAN - 50+ Mbps *capsules!*

Compelling Applications

- ◆ Preventing ACK Implosion in Reliable Multicast
- ◆ On-the-fly updates of network elements (Active Bridging)
- ◆ PLAN per-packet QoS routing

<http://www.cis.upenn.edu/~switchware>